

FIG. 1

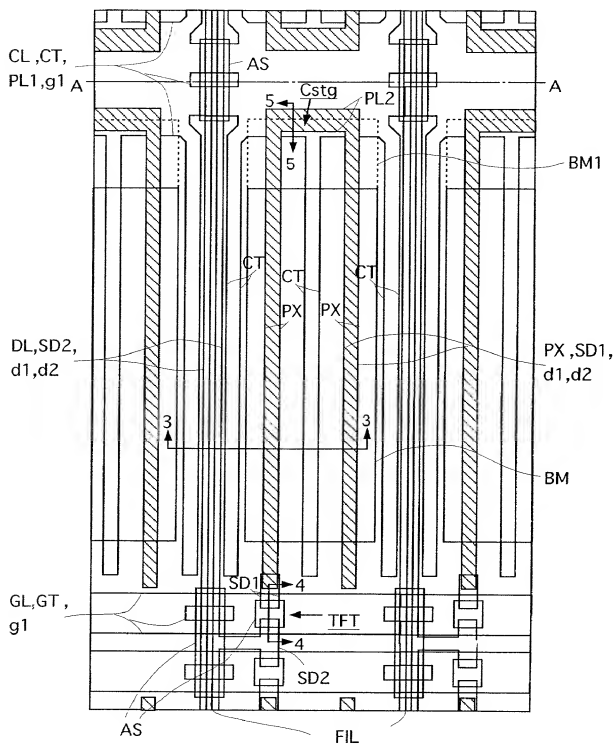


FIG.3

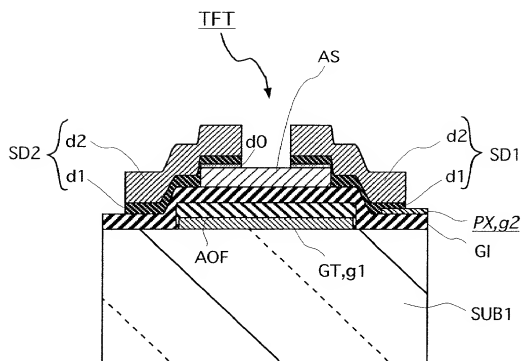


FIG.4

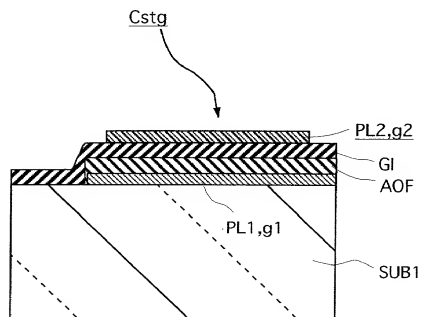


FIG. 5

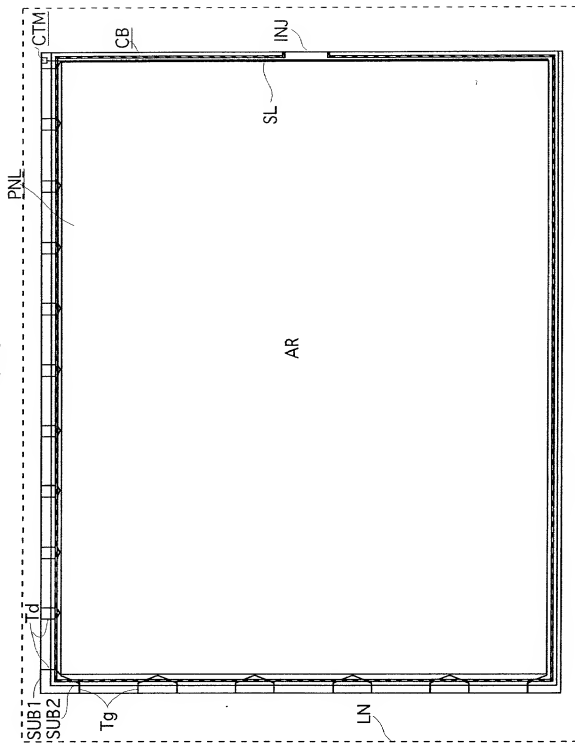


FIG. 6

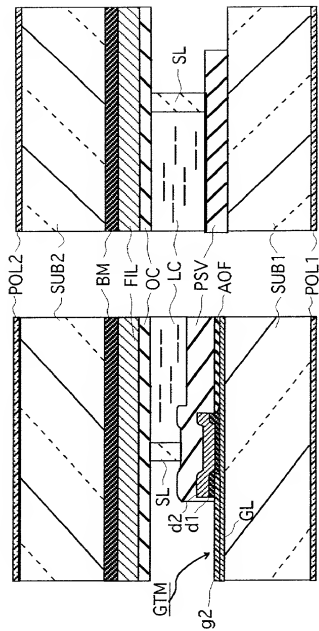


FIG. 7A

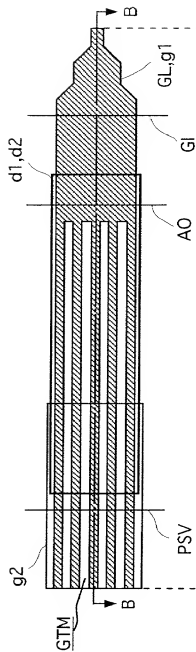


FIG. 7B

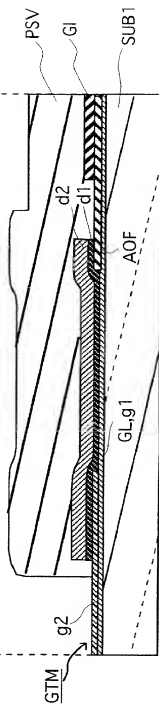


FIG. 8A

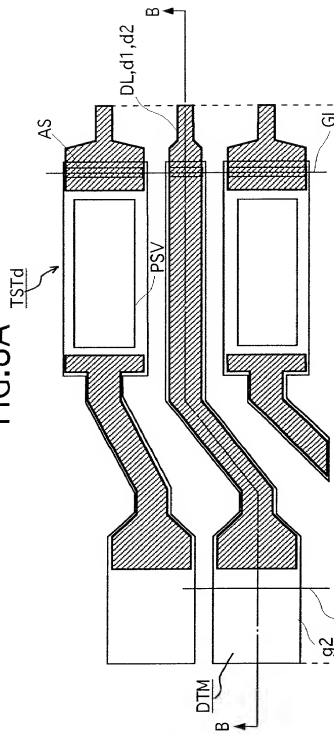


FIG. 8B

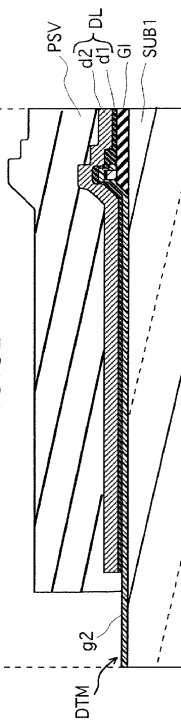


FIG.9A

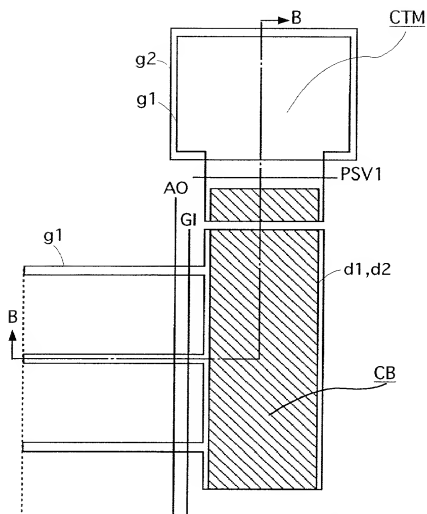


FIG.9B

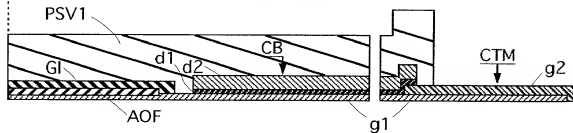


FIG.10

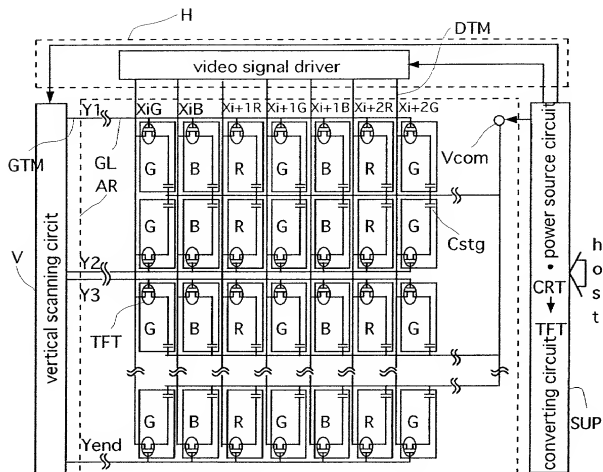


FIG.11

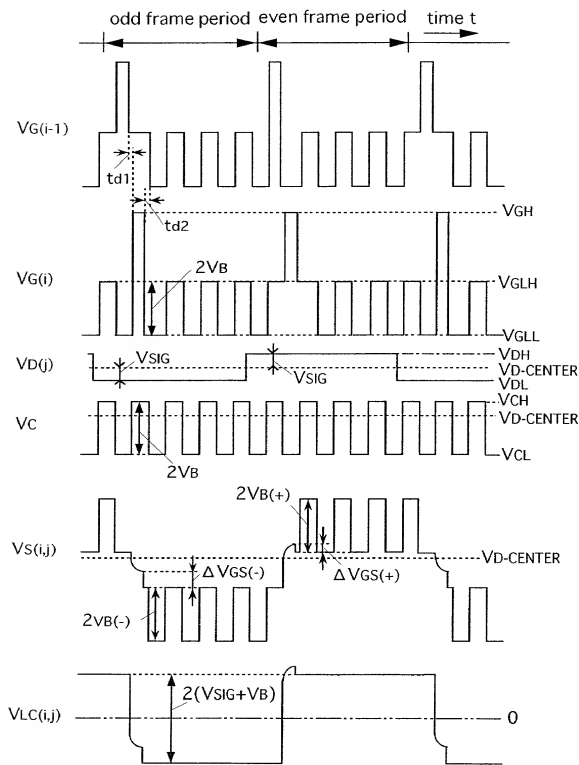


FIG. 12

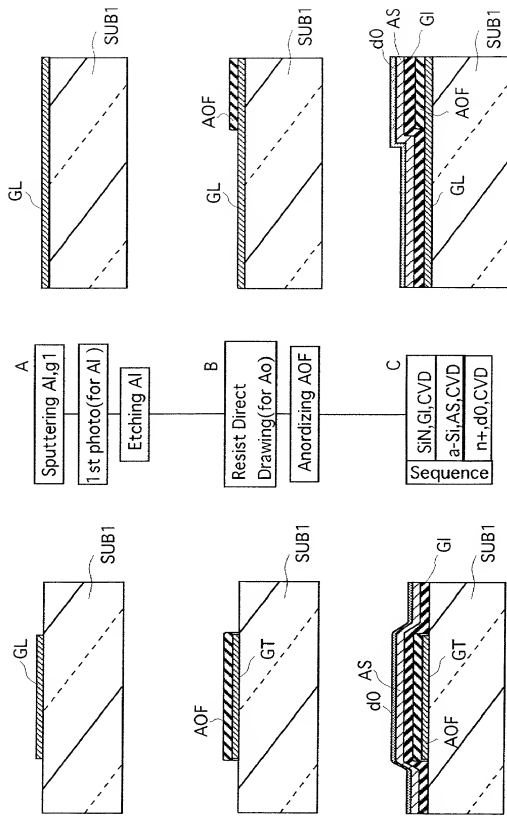


FIG.13

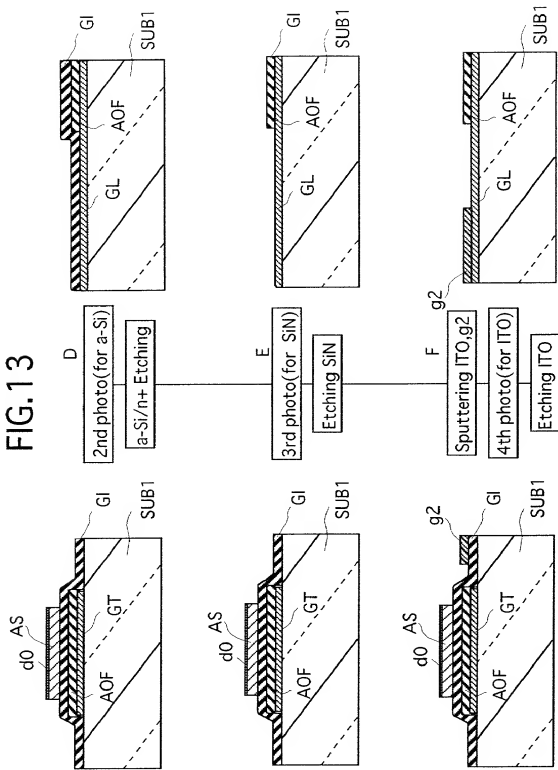


FIG. 14

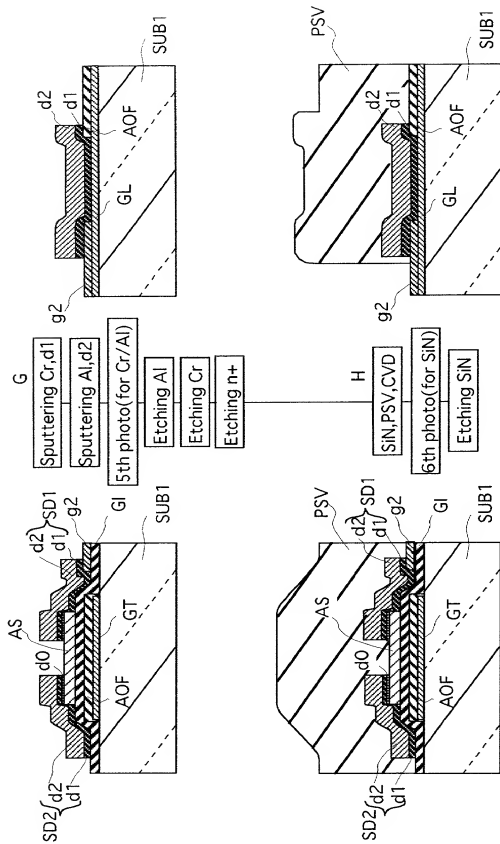


FIG.15

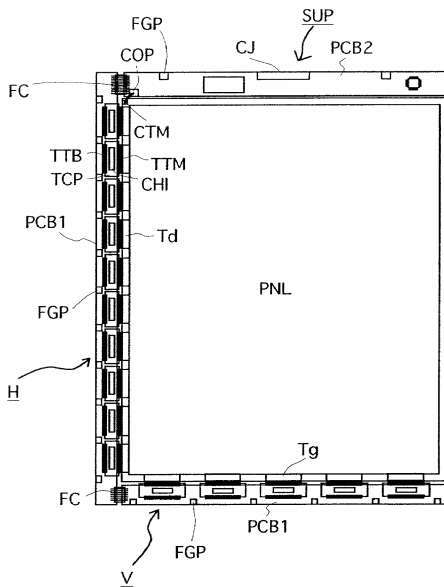


FIG.16

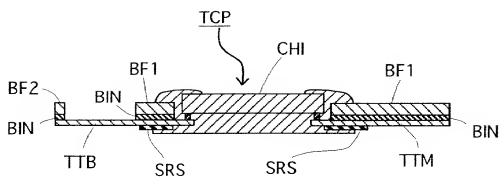


FIG.17

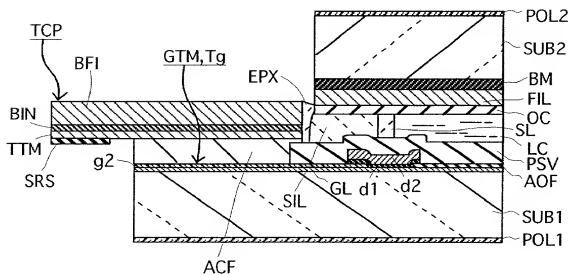


FIG.18

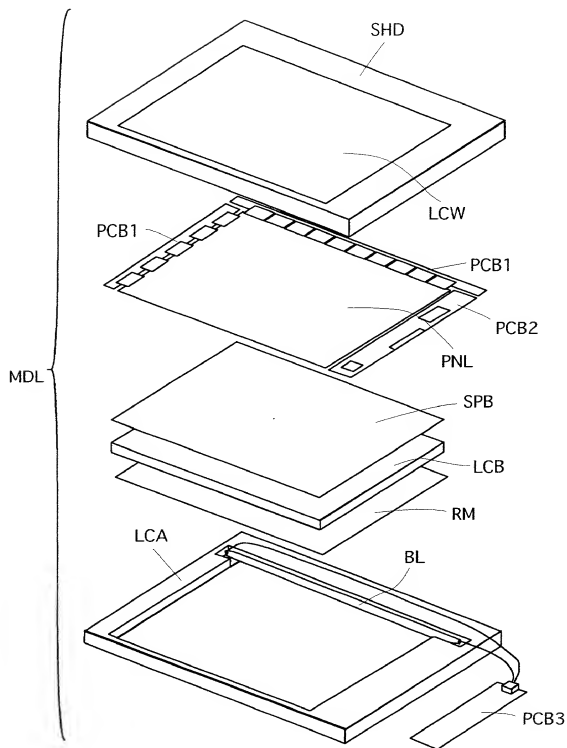


FIG.19

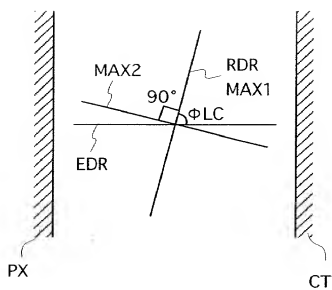


FIG.20

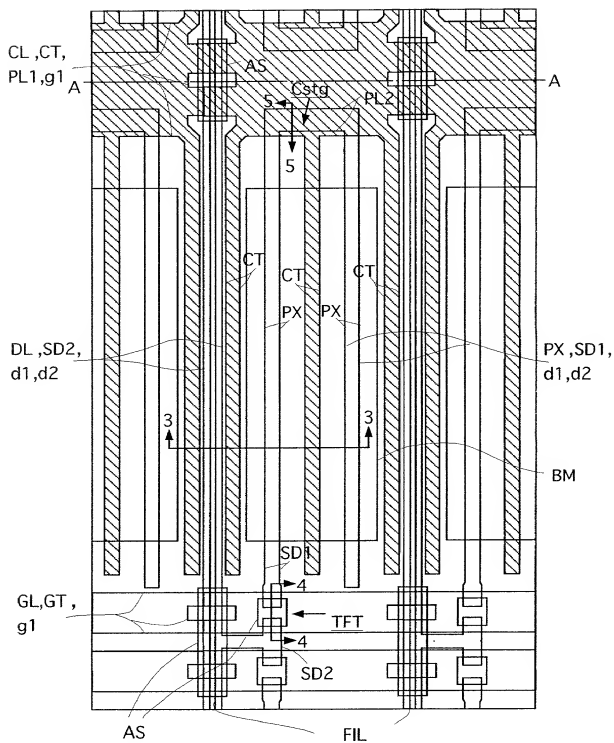


FIG.21

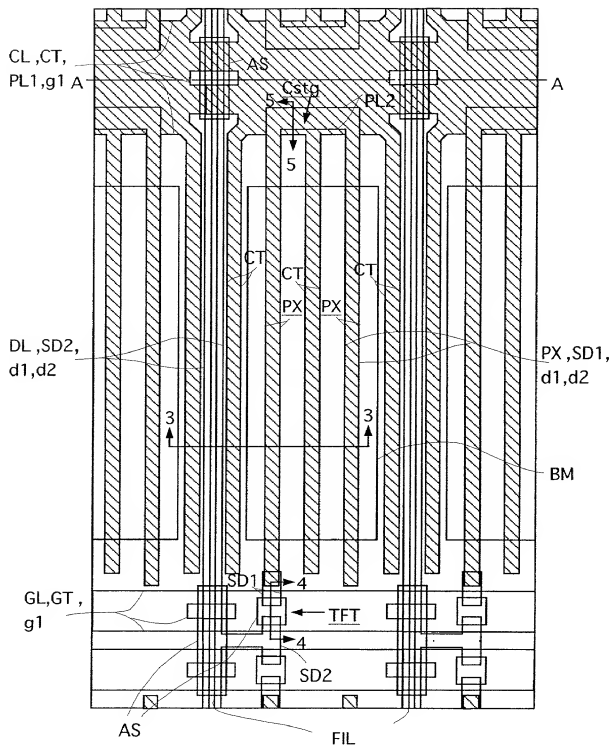


FIG.22

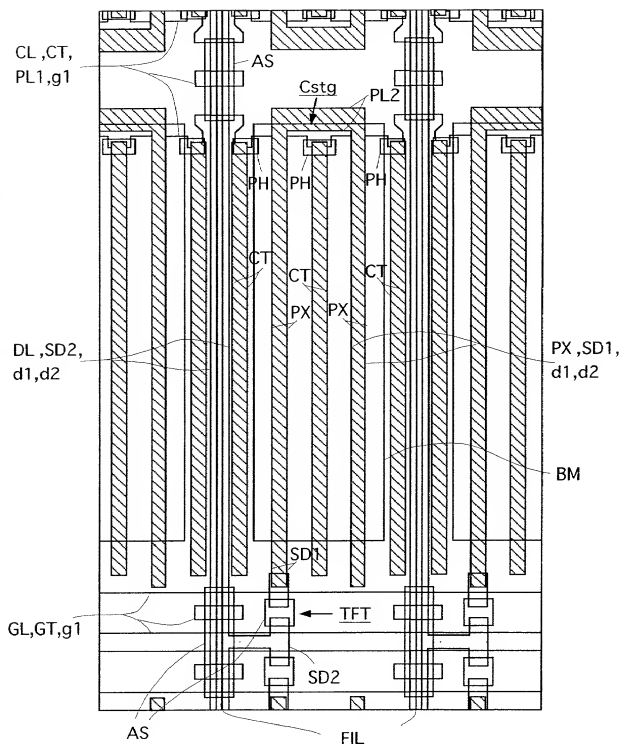


FIG.23

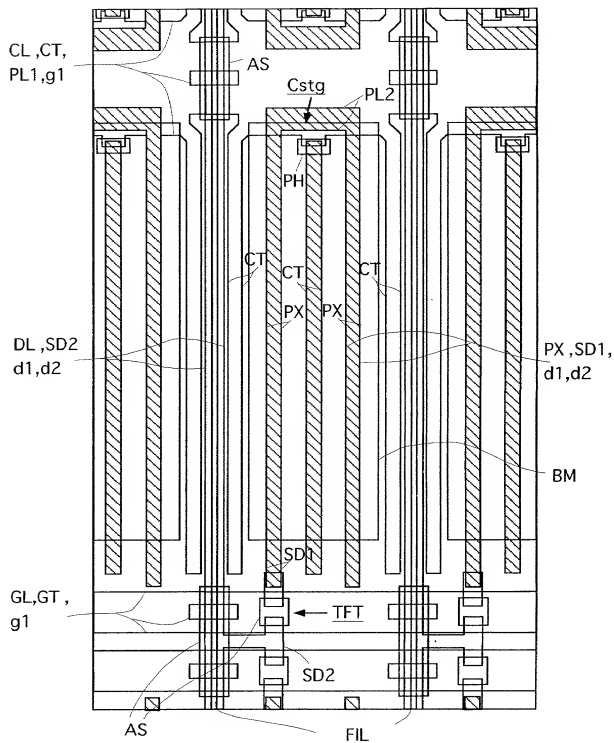


FIG.24A

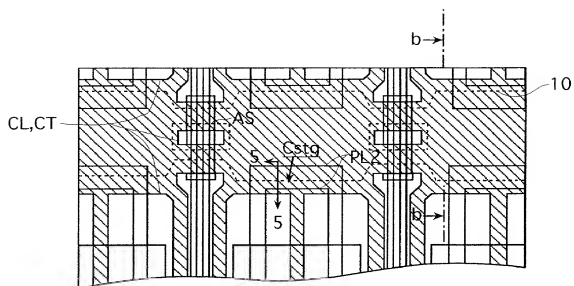


FIG.24B

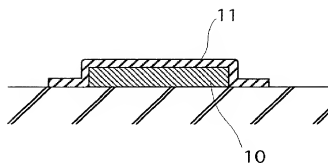


FIG.24C

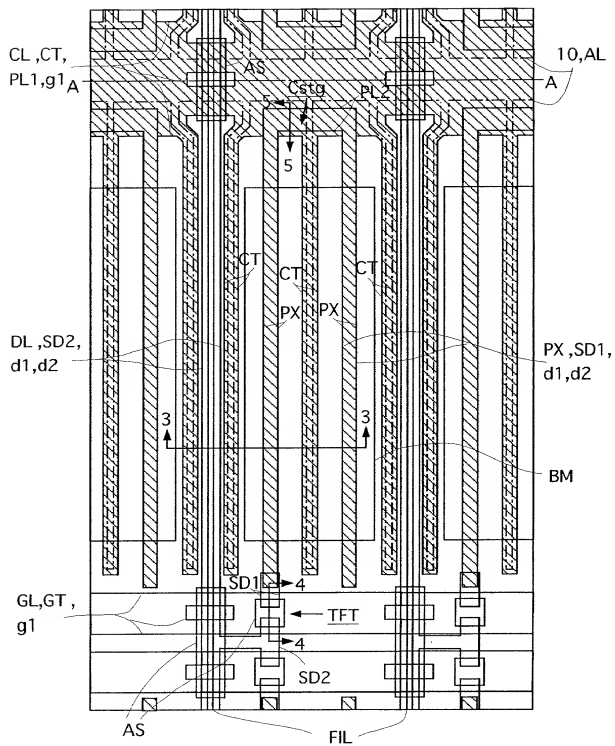


FIG.25

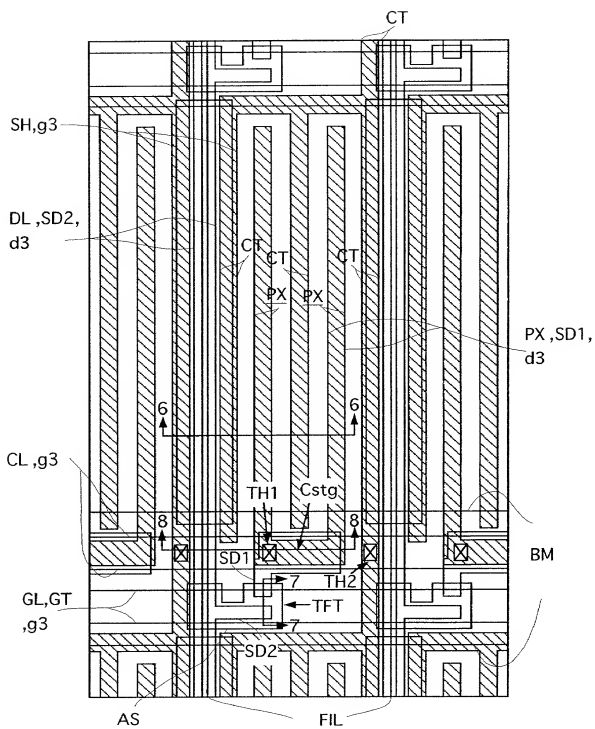


FIG.26

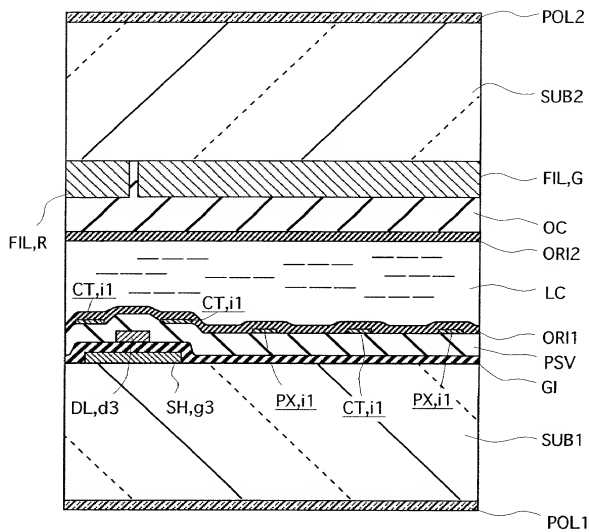


FIG.27

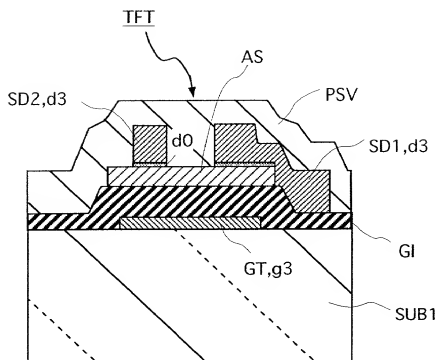


FIG.28

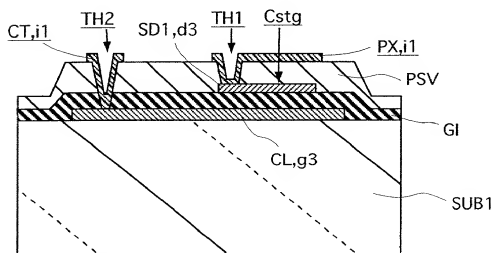


FIG. 29A

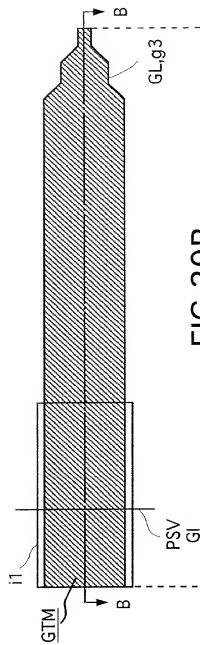
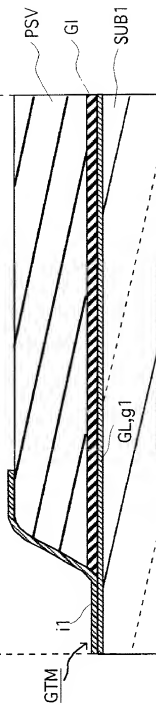


FIG. 29B



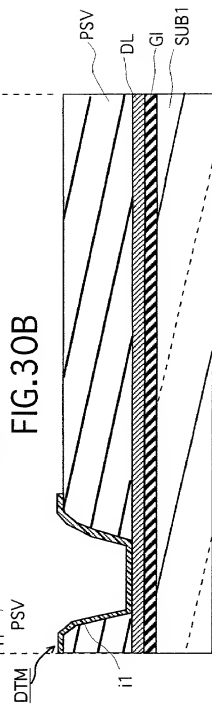
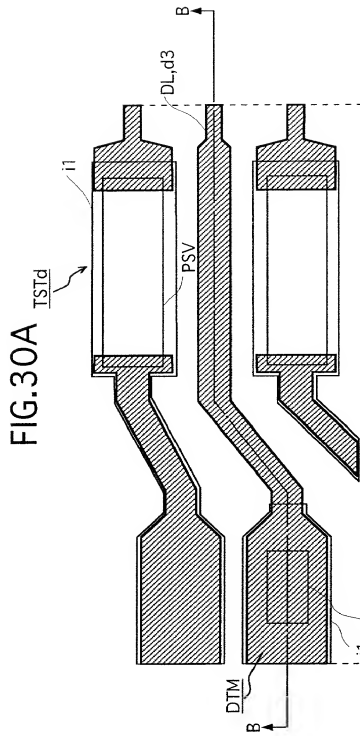


FIG.31A

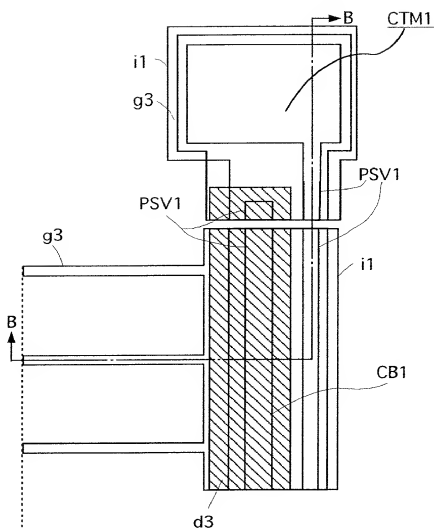


FIG.31B

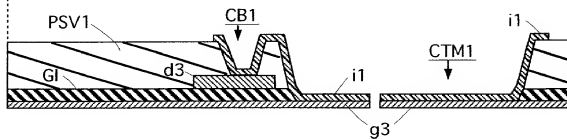


FIG.32A

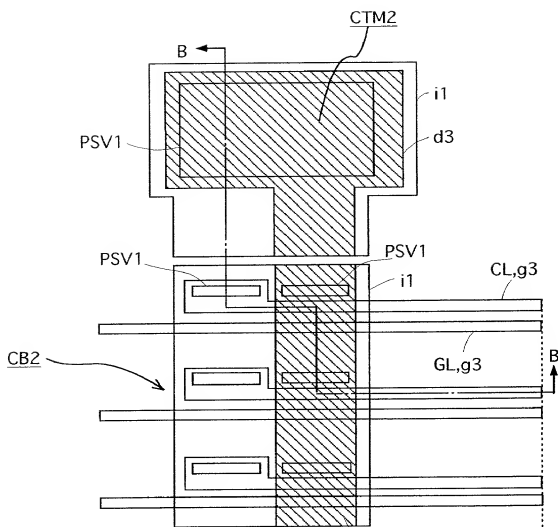


FIG.32B

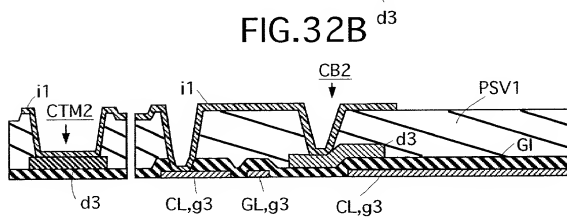


FIG.34

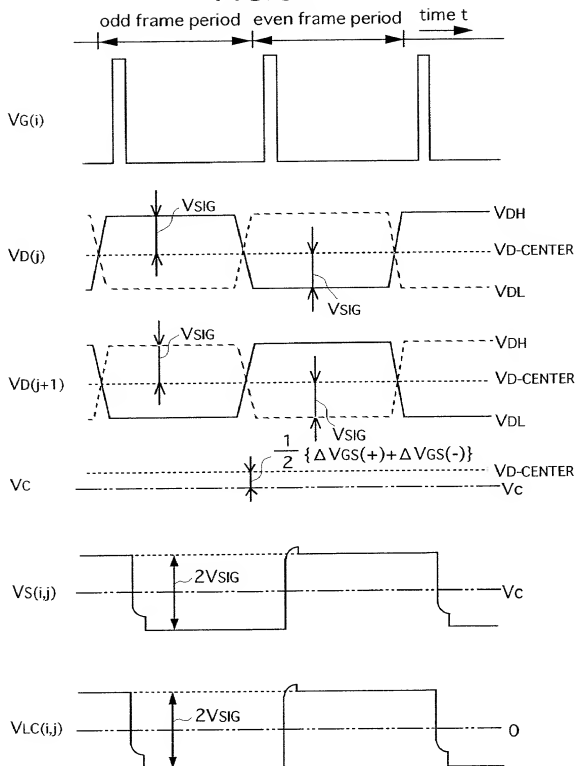


FIG.35

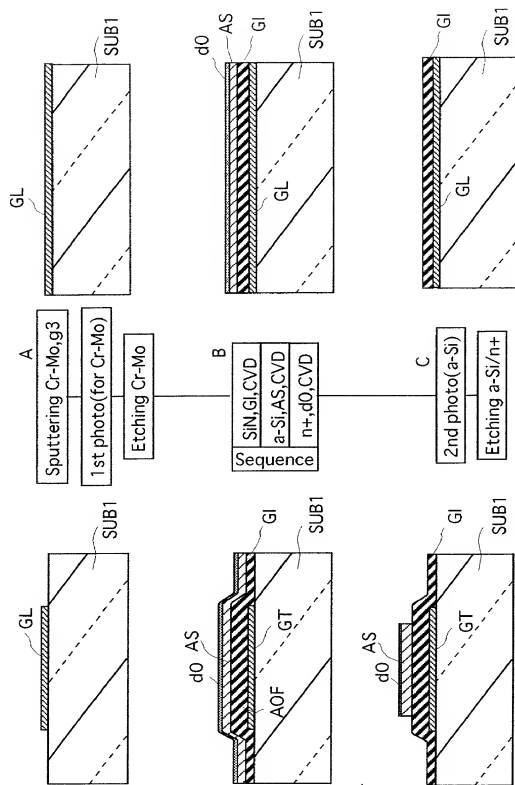


FIG.36

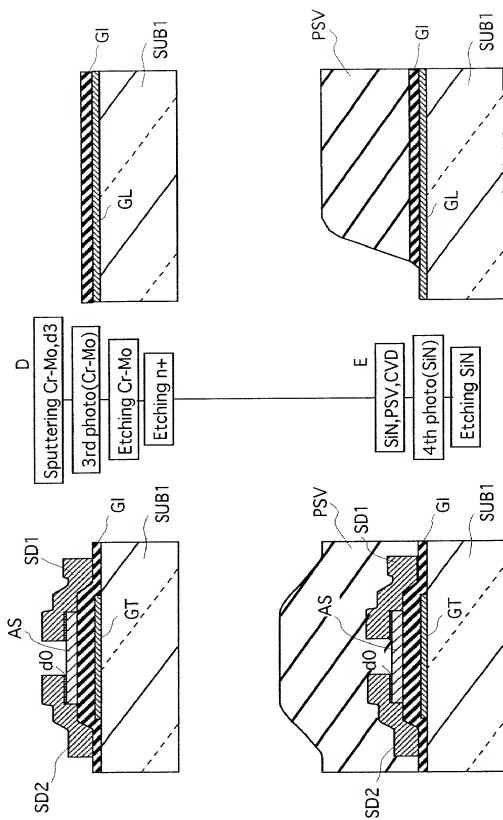


FIG.37

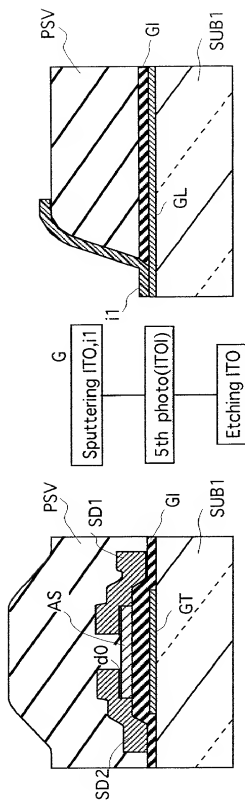


FIG.38

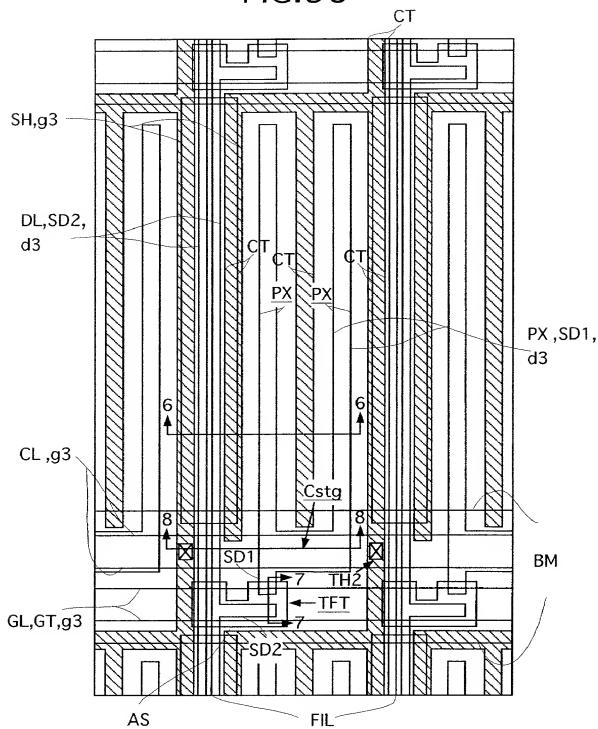


FIG.39

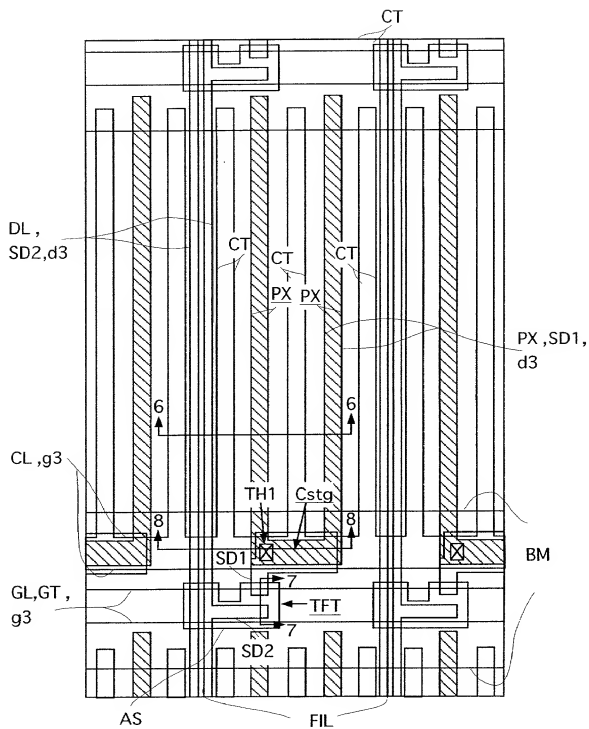


FIG.40

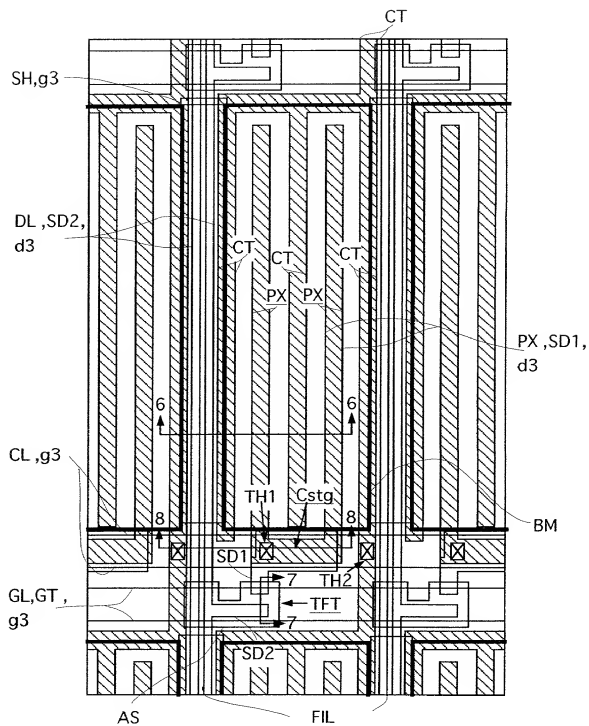


FIG.41A

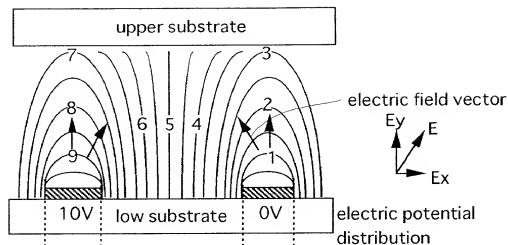


FIG.41B

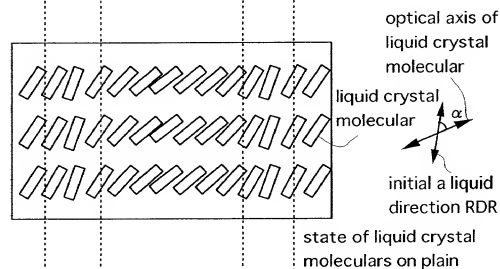


FIG.41C

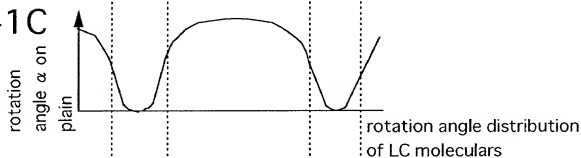


FIG.41D

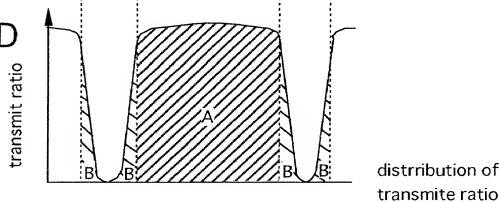
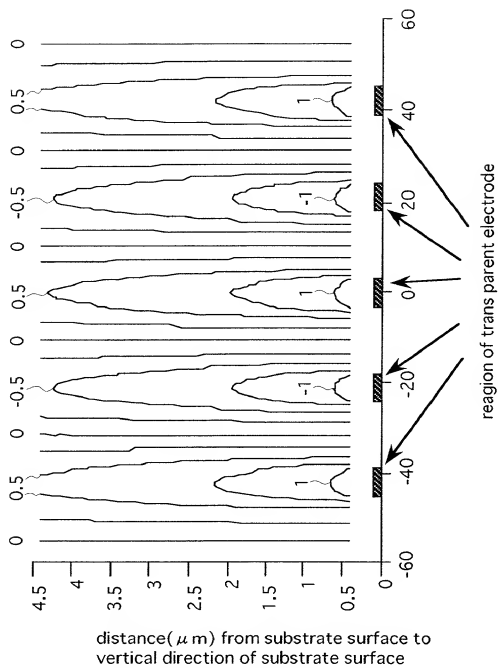
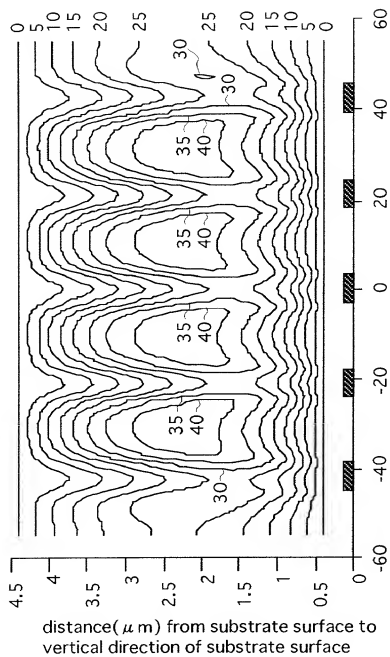


FIG.42A



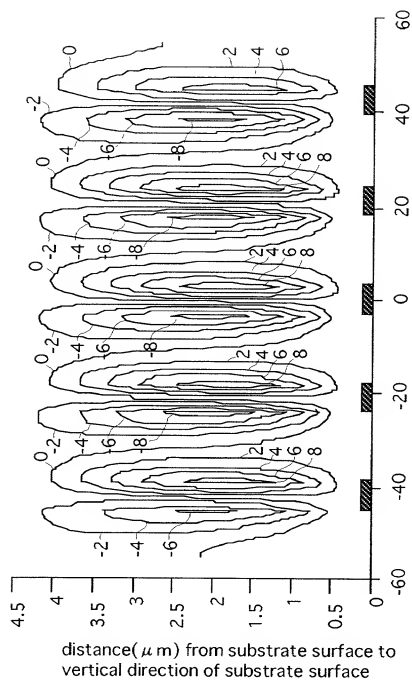
equipotential curve

FIG.42B



rotation angle of LC molecules

FIG.42C



tilt angle of LC molecules

FIG.43A

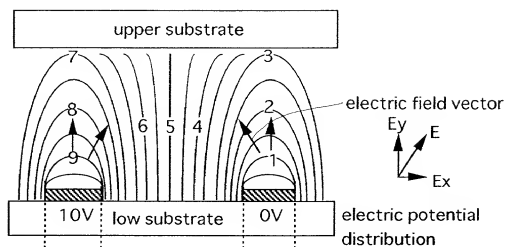


FIG.43B

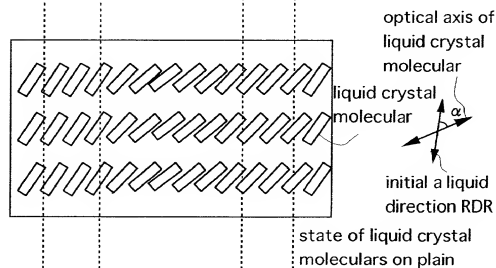


FIG.43C

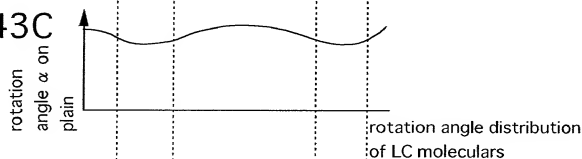


FIG.43D

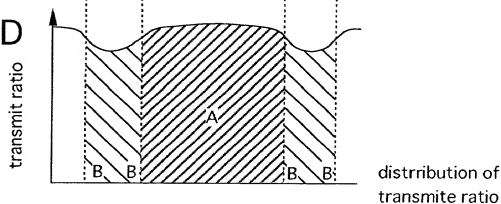


FIG.44

